

NASA SOFTWARE RELEASE REQUEST AUTHORIZATION

Date of Request:		Full Name of Requestor:	
Software Title and Abbreviation:			
Technology Case Number:	Version Number:	Version Date:	
Technical Point of Contact (Person Who Knows the Most About the Software):			
Full Name:		Company Name:	
Company Address:			
Mail Code:	Organization Code:	Phone:	
E-Mail Address:			
Government Point of Contact (If Technical Point of Contact Is a Contractor):			
Full Name:		Agency Name:	
Mailing Address:			
Organization Code:		Phone:	
E-Mail Address:			
Brief Description of Software:			
What Type of Code Will Be Released? <input type="checkbox"/> Executable <input type="checkbox"/> Source <input type="checkbox"/> Executable and Source			
Type of Release Requested:			
<input type="checkbox"/> Government Purpose Only Release <input type="checkbox"/> U.S. Release (Recipient Must Be U.S. Person Or Company) <input type="checkbox"/> U.S. and Foreign Release (All U.S. Persons And Allowed Foreign Nationals) <input type="checkbox"/> Public Release <input type="checkbox"/> Open Source Release (No Release Restrictions)			
Will A User Manual Be Released With Your Software? <input type="checkbox"/> Yes <input type="checkbox"/> No			
How Do You Plan to Distribute Your Software? (i.e., CD-ROM, E-Mail Attachment, Download After E-Mailing Password)			
Are There Any Programmatic Restrictions On Release of Your Software? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If Yes, Explain:			
What Is The Classification And Safety Critical Designation Of The Software? Class A - Non-Safety Critical			
NOTE: Refer to NPR 7150.2A, Appendix E and NASA-STD-8739.8, Appendix A for an explanation of the classifications and safety critical designations for software.			
Does the Software Comply With the Software Engineering and Assurance Requirements of NPR 7150.2A and NASA-STD-8739.8, Software Assurance Standard, for the Applicable Software Classification? <input type="checkbox"/> Yes <input type="checkbox"/> No (See IMPORTANT below)			
IMPORTANT: Please use the "Instructions for Use of Compliance Matrices for Software Classifications" file to complete the appropriate matrix for the class of software to be released. Attach a copy of the completed matrix to this document when submitting it for review. Questions concerning applicability of requirements should be directed to the local designated Software Engineering Technical Authority (for NPR 7150.2A) or Software Assurance Technical Authority (for NASA -STD-8739.8).			
If Software Does <u>NOT</u> Comply, Are the Deviations/Waivers Documented and Approved? <input type="checkbox"/> Yes <input type="checkbox"/> No			
(Please Attach Relevant Deviations/Waivers)			
Is the Software Safety-Critical as Defined In NASA-STD-8739.8? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If Yes, Does It Comply With the Software Safety Requirements of NASA-STD-8719.13, Software Safety Standard? <input type="checkbox"/> Yes <input type="checkbox"/> No			

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If No, Are the Deviations/Waivers Documented and Approved? <input type="checkbox"/> Yes <input type="checkbox"/> No (Please Attach Relevant Deviations/Waivers)
What Is the Software's Technology Readiness Level (TRL) as Defined in NPR 7120.8, NASA Research and Technology Program and Project Management Requirements? TRL Level: 1 (See Attachment 2 - TRL Level Chart)
Is the Software Section 508 Compliant? <input type="checkbox"/> Yes <input type="checkbox"/> No
Does Your Software Include Any Embedded Computer Databases? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain:
Does Your Software Use or Call Any Software or Libraries?
(a) Open Source: <input type="checkbox"/> Yes <input type="checkbox"/> No (b) Proprietary/Commercial: <input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes, List the Items Used, Under What License They Were Obtained, and the URL for the License:
Are There Any Known Export Restrictions That Apply to the Software? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain (e.g., EAR or ITAR Controlled):
Was Software Development Funded By the Military? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain Predominant Application(s) – (Military, Civil, or Both):
Does Your Software Contain Embedded Firewall Information or Require Ports to be Opened in the Firewall for Proper Operation? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain:
Does Your Software Contain Embedded Credentials (e.g., Username/Password, Certificates, Encryption Keys)? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain:
Does Your Software Analyze Network Traffic? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain:
Does Your Software Use or Include Encryption? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain:
Has the Software Application Data Owner Been Consulted to Ensure that Your Software Documentation, Embedded Files, Code, or Other Artifacts Do Not Contain Residual SBU Data? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain:
Has the Applicable Center Privacy Manager Been Consulted to Determine if Your Software Documentation, Embedded Files, Code, or Other Artifacts Contain Any Personally Identifiable Information (PII)? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain: A Frequently Asked Questions (FAQ) Document Addressing NASA PII Can Be Found at: http://insidenasa.nasa.gov/ocio/information/info_privacy/pii_faq.html
If Your Software is Safety-Critical as Defined In NASA-STD-8739.8 or Release of Type General Public or Open Source as Defined in this Form, has a Code Review Been Performed to Discover Any Residual Security and Privacy Risks? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain: If You Do Not Possess the Resources to Perform this Review, Please Contact Your Center ITSM or the Agency OCIO (hq-dl-itspm@mailnasa.gov) for Assistance.

Technical Concurrence and Recommendations

GUIDANCE: The Technical POC is the technical person listed on the first page of this form (can be either a contractor or NASA employee). The NASA POC is the NASA employee most familiar with the software (could be the COTR for a NASA contract/grant).

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Technical POC Name (Printed)

Signature

Date

Recommendations:

NASA POC Name (Printed)

Signature

Date

Recommendations:

Project or Program Office Concurrence and Recommendations

GUIDANCE: The Project/Program Office person is the NASA lead for the project/program under which the software was developed. If the software isn't specific to a project or program, this person would be the NASA manager for the organization responsible for creation of the software.

Project/Program Office Name (Printed)

Signature

Date

Recommendations:

SOFTWARE TECHNOLOGY READINESS LEVEL CHART

Level	Definition	Software Description	Exit Criteria
1	Basic principles observed and reported .	Scientific knowledge generated underpinning basic properties of software architecture and mathematical formulation.	Peer reviewed publication of research underlying the proposed concept/ application.
2	Technology concept or application formulated	Practical application is identified but is speculative, no experimental proof or detailed analysis is available to support the conjecture. Basic properties of algorithms, representations & concepts defined. Basic principles coded. Experiments performed with synthetic data.	Documented description of the application/concept that addresses feasibility and benefit
3	Analytical and/ or experimental critical function or characteristic proof-of-concept .	Development of limited functionality to validate critical properties and predictions using non-integrated software components	Documented analytical/experimental results validating predictions of key parameters
4	Component or breadboard validation in laboratory	Key, functionally critical, software components are integrated, and functionally validated, to establish interoperability and begin architecture development. Relevant Environments defined and performance in this environment predicted.	Documented test performance demonstrating agreement with analytical predictions. Documented definition of relevant environment.
5	Component or breadboard validation in a relevant environment	End-to-end Software elements implemented and interfaced with existing systems/simulations conforming to target environment. End-to-end software system, tested in relevant environment, meeting predicted performance. Operational Environment Performance Predicted. Prototype implementations developed.	Documented test performance demonstrating agreement with analytical predictions. Documented definition of scaling requirements.
6	System/subsystem model or prototype demonstration in a relevant environment	Prototype implementations of the software demonstrated on full-scale realistic problems. Partially integrate with existing hardware/software systems. Limited documentation available. Engineering feasibility fully demonstrated.	Documented test performance demonstrating agreement with analytical predictions.
7	System prototype demonstration in space	Prototype software exists having all key functionality available for demonstration and test. Well integrated with operational hardware/software systems demonstrating operational feasibility. Most software bugs removed. Limited documentation available.	Documented test performance demonstrating agreement with analytical predictions
8	Actual system completed and flight qualified through test and demonstration	All software has been thoroughly debugged and fully integrated with all operational hardware and software systems. All user documentation, training documentation, and maintenance documentation completed. All functionality successfully demonstrated in simulated operational scenarios. V&V completed..	Documented test performance verifying analytical predictions
9	Actual system flight proven through successful mission operations	All software has been thoroughly debugged and fully integrated with all operational hardware/software systems. All documentation has been completed. Sustaining software engineering support is in place. System has been successfully operated in the operational environment.	Documented mission operational results